Reference Guide

Proxmox Infrastructure
Complete Series Hub

11 guides to deploy your self-hosted stack on Proxmox VE

Mars 2026

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Proxmox VE is the foundation of any modern self-hosted infrastructure. This hub centralizes the 11 series guides — from the base Ubuntu VM to Kubernetes orchestration with K3s.

1. Why Proxmox at the Core of the Infrastructure

In 2026, hypervisor choice is strategic. VMware (now Broadcom) has doubled to quintupled its pricing. Proxmox VE emerges as the mature open source alternative:

• KVM + LXC: full VMs and lightweight containers in a unified interface

• Native cluster: Corosync quorum, live migration, automatic HA

• ZFS snapshots: instant rollback before any critical update

• Integrated Ceph: distributed storage without external SAN

• Complete REST API: Terraform, Ansible, custom scripts

• AGPL license: free forever, no vendor lock-in

■ *Per IDC 2025, 61% of European SMBs that migrated from VMware chose Proxmox. Average ROI: 8 months.*

2. The Complete Stack — 11 Technologies, One Ecosystem

2a. Ubuntu Server — The Foundation

Reference OS for Proxmox VMs. 5-year LTS, mature ecosystem, stable base on which everything else installs.

2b. Docker — Containerization

Application containerization runtime on Ubuntu VMs. Isolates services in portable containers with volume and network management.

2c. Ghost CMS — Publishing

Blog and content publishing engine. Runs in a Docker container. Performant, headless when needed, native RESTful API.

2d. Zoraxy — Reverse Proxy

Central reverse proxy. Request routing, SSL termination, automatic Let's Encrypt certificates. One interface, all endpoints.

2e. Vaultwarden — Secrets

Open source Bitwarden implementation. Encrypted credentials, accessible from scripts, AI agents, teams. No more flat files.

2f. Uptime Kuma — Monitoring

Monitors all stack services. Real-time dashboard, Telegram/email alerts, public status pages.

2g. Linux Automation

Scripts and crons: automated backups, log rotations, synchronizations. Automation without AI agents for repeatable tasks.

2h. High Availability and Backups

DRBD, Proxmox Backup Server, failover strategy. The stack survives hardware failures — persistent data, services that restart.

2i. WireGuard — Network Security

Site-to-site VPN connecting Proxmox nodes between datacenters. Secure remote admin access. Lightweight, fast, modern cryptography.

2j. K3s Kubernetes — Orchestration

Rancher's lightweight Kubernetes distribution. Auto-scaling, rolling updates, load balancing — the natural next step after Docker.

3. Index of 11 Guides — Direct Links

4. Where to Start?

Starting infrastructure from scratch: begin with guide 2 (Ubuntu Server) and follow the sequence.

Ubuntu VM already in place: start with guide 4 (Docker), then Ghost CMS, then Zoraxy.

Goal is monitoring or security only: guides 7 (Uptime Kuma) and 10 (WireGuard) are standalone.

Conclusion

11 guides, one coherent ecosystem. The Proxmox Infrastructure Series documents a complete self-hosted stack — each building block designed to integrate with the others. From hypervisor to Kubernetes orchestration, BOTUM has deployed and validated this architecture in production.

■ *BOTUM supports SMBs and enterprises in deploying this stack — audit, sizing, supervised production deployment.*

Full hub: blog.botum.ca/proxmox-infrastructure-hub-complete-series

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